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**	User ID:	d26fmew	
**	User Name: User Phone:	MARK E. WALLERSON 0003058581	
**	Workstation Id:	WSHBUEUC	
**	Printer Id:	wemtptr	
**	Date:	Tue Feb 3 1998	
**	Time:	14:47:34	
**	Job #	0212	
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     The Help Desk staff at this number will handle all APS
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 FILE 'USPAT' ENTERED AT 14:42:18 ON 03 FEB 1998
                           TO THE
              WELCOME
          U.S. PATENT
                            TEXT FILE
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50994 BI 109088 BIS 155621 BI

(BI OR BIS)

1065487 DIRECTION##

13527 BI(2A)DIRECTION##

L1 33980 BIDIRECTION## OR BI(2A)DIRECTION##

=> s print###(3a)status

230419 PRINT###

70087 STATUS

1751 STATUSES

70335 STATUS

(STATUS OR STATUSES)

L2 1216 PRINT###(3A)STATUS

=> s scan###(3a)status

121116 SCAN###

70087 STATUS

1751 STATUSES

70335 STATUS

(STATUS OR STATUSES)

L3 716 SCAN###(3A)STATUS

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L2

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L1 33980 S BIDIRECTION## OR BI(2A)DIRECTION##

1216 S PRINT###(3A)STATUS

L3 716 S SCAN### (3A) STATUS

=> s 11 and 12 and 13

L4 14 L1 AND L2 AND L3

=> d l4 1-14

- 1. 5,564,117, Oct. 8, 1996, Computer system including a page printer controller including a single chip supercalar microprocessor with graphical functional units; Derek J. Lentz, et al., 345/502; 395/101, 110 [IMAGE AVAILABLE]
- 2. 5,559,951, Sep. 24, 1996, Page printer controller including a single chip superscalar microprocessor with graphics functional units; Derek J. Lentz, et al., 345/502; 395/101, 115 [IMAGE AVAILABLE]
- 3. 5,532,844, Jul. 2, 1996, Image data transferring system and method; Yuichi Kagami, et al., 358/468, 442, 444; 364/238.2, 238.3, DIG.1; 395/821 [IMAGE AVAILABLE]
- 4. 5,394,515, Feb. 28, 1995, Page printer controller including a single chip superscalar microprocessor with graphics functional units; Derek J. Lentz, et al., 395/115; 345/502 [IMAGE AVAILABLE]
- 5. 4,977,529, Dec. 11, 1990, Training simulator for a nuclear power plant; Gerald L. Gregg, et al., 364/578, 492; 376/245, 463 [IMAGE AVAILABLE]
- 6. 4,922,347, May 1, 1990, Apparatus for recording displayed video data; Louis V. Galetto, et al., 358/296, 409; 386/121 [IMAGE AVAILABLE]

- 7. 4,736,255, Apr. 5, 1988, Recording apparatus; Kunihiko Miura, et al., 358/300; 347/140; 902/21 [IMAGE AVAILABLE]
- 8. 4,729,038, Mar. 1, 1988, Recording apparatus capable of forming a shadow print impression to characters; Kunihiko Miura; et al., 358/300; 347/247; 358/298, 443; 400/120.07 [IMAGE AVAILABLE]
- 9. 4,707,715, Nov. 17, 1987, Printing apparatus; Kunihiko Miura, 347/129, 139; 358/296; 399/151; 902/18 [IMAGE AVAILABLE]
- 10. 4,649,403, Mar. 10, 1987, Recording apparatus; Kunihiko Miura, 347/139; 346/145 [IMAGE AVAILABLE]
- 11. 4,647,950, Mar. 3, 1987, Recording apparatus; Takefumi Nosaki, et al., 347/246, 253; 355/69 [IMAGE AVAILABLE]
- 12. 4,463,417, Jul. 31, 1984, Modular, processor-controlled document distribution terminal; Kenneth A. Bushaw, et al., 358/442; 364/222.2, 222.3, 222.5, 228.3, 230, 230.4, 231.4, 231.5, 231.8, 232.7, 232.8, 232.9, 234, 235, 236.3, 237, 237.6, 238.3, 238.5, 242.6, 242.7, 247, 247.2, 247.8, 248.2, 260.4, 260.6, 260.81, 260.9, 263, 284, 284.3, DIG.1; 379/100.02; 380/4 [IMAGE AVAILABLE]
- 13. 4,454,575, Jun. 12, 1984, Shared memory system with access by specialized peripherals managed by controller initialized by supervisory CPU; Kenneth A. Bushaw, et al., 345/433; 358/403, 468; 364/222.2, 222.3, 222.5, 228.4, 231.4, 231.5, 231.6, 231.7, 232.9, 235, 237.82, 238, 238.3, 238.4, 238.5, 240.5, 240.9, 241.2, 241.3, 241.9, 242.3, 242.31, 242.6, 242.7, 242.91, 242.94, 242.96, 254, 254.3, 259, 259.9, 260, 260.1, 260.4, 260.6, 260.81, 260.9, 263, 264, 264.1, 264.6, 280, 280.7, 281.3, 281.7, 284, 284.1, 286, 286.4, DIG.1; 380/18, 25, 49, 50; 395/878 [IMAGE AVAILABLE]
- 14. 4,141,078, Feb. 20, 1979, Library circulation control system; Louis E. Bridges, Jr., et al., 235/375, 380, 385; 340/572; 364/918, 918.7, 919.4, 920, 920.6, 926.8, 927.2, 928, 930, 930.7, 931, 931.4, 932, 932.1, 932.5; 932.6, 940, 942, 947, 947.2, 948.2, 952, 952.1, 952.4, 952.5, 952.6, 965, 965.5, DIG.2; 705/30 [IMAGE AVAILABLE]

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L1 33980 S BIDIRECTION## OR BI(2A)DIRECTION##

L2 1216 S PRINT### (3A) STATUS

L3 716 S SCAN### (3A) STATUS

L4 14 S L1 AND L2 AND L3

=> s 14 and (computer or pc or (personal computer) or (workstation or work(2a)s tation))

191843 COMPUTER

47749 COMPUTERS

203921 COMPUTER

(COMPUTER OR COMPUTERS)

29697 PC

2635 PCS

31121 PC

(PC OR PCS)

44092 PERSONAL

18 PERSONALS

44097 PERSONAL

L5

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(PERSONAL OR PERSONALS)

191843 COMPUTER

47749 COMPUTERS

203921 COMPUTER

(COMPUTER OR COMPUTERS)

21438 PERSONAL COMPUTER

(PERSONAL (W) COMPUTER)

6987 WORKSTATION

3875 WORKSTATIONS

8451 WORKSTATION

(WORKSTATION OR WORKSTATIONS)

315485 WORK

74829 WORKS

361799 WORK

(WORK OR WORKS)

141778 STATION

71160 STATIONS

157743 STATION

(STATION OR STATIONS)

14206 WORK (2A) STATION

13 L4 AND (COMPUTER OR PC OR (PERSONAL COMPUTER) OR (WORKSTATION OR WORK(2A)STATION))